

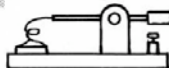
PAGE 1 VOL. 45 NUMBER 4 OCTOBER 2008

Spark-Gap Times



Published By

The Old Old Timers Club



Editor-Publisher Bert Wells W5JNK, #2951. Send items for Spark-Gap Times to ootc@att.net or to 3191 Darvany Dr. Dallas TX 75220-1611.

All other business to Executive Secretary Bill Carter, W6AJ
ootc@ootc.us or OOTC 8015 Loyola Blvd. Los Angeles, CA 90045-2636

FIRST CLASS

WELCOME THESE NEW MEMBERS OF OOTC. SEE PAGES 12 - 15

NAME	CALL	#	REFERRAL, SPONSOR, ELMER
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The July issue contained two incorrect new member numbers.

*W3VQY is #4513 instead of #4512, see page 14.

**KB2BAA is #4520 instead of #4511, see page 15.

James "Jim" Hollabaugh	W6TMU	4511	Sponsor W6AJ #4370.
Luke E. Sheridan	W7XQ	4512	Sponsor W6AJ #4370.
John "Skip" Purcell	* W3VQY	4513	Sponsor W5JNK #2951.
Hugh. W. Morgan	W4VAB	4514	Sponsor W4WB #2014.
Thomas C. Davis	K9TXJ	4515	Sponsor W6AJ #4370.
Fred R. "Ike" Eisenhower	K9AWR	4516	Sponsor W6AJ #4370.
Glenn W. Pladsen	AE0Q	4517	Sponsor W6AJ #4370.
Mitch Wolfson	DJ0QN	4518	Sponsor DJ2XB #3384.
James D. "Jim" Bradley	N7JB	4519	Sponsor W6AJ #4370.
John T. Kafka	**KB2BAA	4520	Sponsor W6AJ #4370.

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Joe Schroeder W9JUV,
Joseph Wehner W8KNO, Bill Carter W6AJ

Spark-Gap Times Editor-Publisher
"Bert" Wells W5JNK (ootc@att.net)

ACTIVITIES

Mark Titterington W1EOF

REGISTERED AGENT RHODE ISLAND

Janice Lentz K4IJK

The Board of Directors honors these Silent
Keys for their contribution to OOTC.

Earl E. Cline #0061 exW4PPZ
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Secretary 1956-57
President 1959-63

Raymond E. Meyers #0188 exW6MLZ
Treasurer 1970-76
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President 1979-84,

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President 1994-2004

L. F. "Ted" Heithecker #1263 exW5EJ
President 1987-90, Secretary 1991-93

THE NOMINATION & ENDORSEMENT PERIOD FOR DIRECTORS IN DISTRICT 2, 4, 6, 8 AND 0 TO SERVE 2010 & 2011 IS OPEN. CANDIDATES MUST LIVE IN YOUR DISTRICT AND BE WILLING TO SERVE. SEND NOMINATION/ENDORSEMENT TO: SECRETARY ootc@ootc.us or 8015 LOYOLA BLVD. LOS ANGELES CA 90045-2636. YOU MAY NOMINATE THE INCUMBENT.

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4 AL-FL-GA-KY-NC-SC-TN-VA.	DAVID KNIGHT, W4ZJY, #3428.
6 CA-HI.	"PAT" PATTERSON, W6RYX, #3867
8 MI-OH-WV-IL-IN-WI.	JOSEPH WEHNER, W8KNO, #4030.
0 CO-IA-KS-MN-MO-NE-ND-SD.	LEO MEYERSON, W0GFQ, #0707.

OOTC ON THE AIR MEETINGS

EUROPEAN CHAPTER #5 CALL DL0OTC

SSB 7:30 CE(S)T 3624 kHz, Tue, NCS DJ5ND, Willi Kreibohm.
SSB 11:00 CE(S)T 7090 kHz, Tue, NCS DJ2XB, Guenter Pesch.
CW 17:30 UTC 3576,5 kHz, Tue, NCS DL1MEB, Karl Maerz.
CE(S)T = Central European (Summer) Time = UTC + 1(2).

U. S. A.

Chapter #2 (CA): Tuesday, 1600 local 3917kHz. NCS W6HV, Troy Wideman.

AZ Chapter: Tuesday, 1600 local, 3913 kHz. NCS W7LGB, Lyle Brown.

N.East Chapter: Thursday, 1330 local, 7230 kHz. NCS K2VNM, Robert Kerns.

CH82 E. TN & SW. VA Chapter: Sun, 9:00PM E. 145.110MHz. down shift.

OOTC National Calling Frequency: Friday, 1700 UTC on 14050 kHz.

SUPPLIES AVAILABLE – Price includes postage.

OOTC BADGE - \$7 - \$9 or \$9.50 see page 22.

OOTC 4" Round Iron-on Jacket patch - \$5.00

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A MESSAGE FROM THE PRESIDENT

The chairman of The Foundation for Amateur Radio Scholarships, Diane Zimmerman, AA3OF, has informed OOTC of the award of the OOTC scholarship to Alex Brech, KC0YLD. This year award was \$1000 (up from the prior years \$600 scholarships). Alex was recommended by OOTC member Robert Roske, N0UF (#4081).

Alex wrote:

Dear Old Old Timers Club,

Thank you for providing financial support to students who are part of Amateur Radio. I was selected to receive the Old Old Timers Club Scholarship for the 2008-2009 academic year and I thank you very much for this aid. It will help me focus on my class work in Computing Engineering instead of balancing a part time job with full-time college. I am proud of the fact that I have received this scholarship and I plan to contact my high school advisor and hometown newspaper and also frame the certificate so that others may know about another one of the benefits of being a ham radio operator.

I come from a family of Amateur Radio operators. My father was first licensed in 1973 as WB0KGU and recently upgraded from Advanced to Extra Class. My mother was first licensed in 1978 as KA6AXK and is happy with General Class privileges. My second oldest brother is 32 and was first licensed in 1995 as KB0UYK and enjoys General Class privileges. His wife, Tami, was licensed in 1997 as KC0AXY. She had General privileges until she became a silent key in 2004. My oldest brother is 33 and was first licensed in January of 2007 as KC0ZGC. He also enjoys his General Class license. I was first licensed at the end of August of 2006 as a Technician. I wanted to get the license before going to college and managed to be licensed just before my senior year of high school

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started. The sheriff's deputy of the county where I live held a class to get people educated and involved. I took the class and then the Technician test and passed with no problem. Then in December of 2006 I took my General Class test. I passed the multiple-choice part but

was not ready for the Morse code. I planned to get the written part out of the way and then focus more on the Morse code during the time that my CSCE was valid. However, with the FCC's actions at the end of February 2007, I did not have time to take the Morse code test in order to upgrade. I upgraded to General in March of 2007. Then dad and I could study the Extra Class book together. He would ask me questions and I would try to answer them. He would learn by reading through them and I would learn by hearing them. We both learned as we discussed why answers were right and how to remember them easily. I upgraded to Extra Class in the middle of August 2007. I have since been accredited with the ARRL and W5YI as a volunteer examiner. In September of 2007, I started college at the South Dakota School of Mines and Technology in Rapid City, SD and quickly became involved with the ham radio club (K0VVY) on campus. The club participated in the 2007 Collegiate Championship for the first time in many years. The five of us didn't do too bad considering we were all very new at radio contesting. We had lots of fun and placed 13! I participated in Field Day 2007 with the Marshall Amateur Radio Club but was unable to make it to Field Day 2008 because my cousin was getting married and wouldn't change the wedding date! I am leaving with a school team for a competition in Georgia on July 25, and I am taking my handheld with me! Thank you again!

73, /s/ Alex Brech KC0YLD

OLD OLD TIME RADIO

By BOB SHRADER

W6BNB, #3007

In the first days of communicating by radio waves, the first antennas were small loops near each other. The transmitter was an electrical spark in a wire loop circuit. The small gap in receiving loop across the room would break down and spark across when the transmitting loop circuit developed a spark across its gap. Across the room – some DX!

The next step was to separate the loops as far as possible. Unfortunately that did not work very far. Then they came up with the idea of putting the spark gaps between a wire up in the air on one side of the gaps and a connection to the earth on the other side of the gaps. That worked much better.

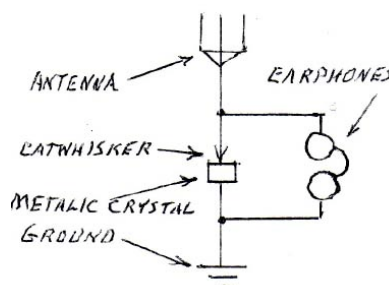
By experimenting, it was found that if both the transmitting and receiving antenna (“aerial”) wires were the same length, the received sparks were brighter than if different length antenna wires were used. If they hooked a 200-meter long antenna wire onto the transmitting spark gap and used a similar length receiving antenna wire, they could receive sparks over quite a distance, so the idea of using wavelengths for measuring their wire lengths became popular.

A better detecting device than a tiny spark jumping a very small air gap was needed. There were a variety of devices that were developed that could mark on moving paper tapes or make audible the transmitted spark signals. One of the best of the latter ones was to use a metallic crystal with a thin sharp metal wire “cat whisker” touching the crystal (the first solid-state diodes, although not known that then). Telephone like earphones across the crystal/catwhisker, Fig.1 (see top of next page), produce audible buzzing sounds instead of visible sparks.

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The transmitted spark signals could now be picked up at far greater distances.
Fig.2

It was found that a coil and "condenser" (capacitor) could be used to make antenna lengths variable instead of varying the length of the wires in their radio circuits. This eventually led to determining that a $\frac{1}{2}$ -wavelength antenna wire was the shortest that could be used for maximum transmission and reception



of radio energy. It was found that if an antenna was connected to a good ground connection (such as a water pipe that ran under the earth) that only a $\frac{1}{4}$ wavelength of wire was necessary for a peaking of results. They were still thinking in terms of length of antenna wires in meters. When they began constructing radio circuits they still used the idea of the operating wavelengths for their coil/condenser ("LC") circuits, but eventually they began thinking of both wavelengths and radio "frequencies" (RF) in their circuits with frequencies eventually winning out in most cases.

So their antennas became $\frac{1}{4}$ wave, $\frac{1}{2}$ wave, $\frac{3}{4}$, full wave, etc. in length. Then it was found that top-loading a $\frac{1}{4}$ wave antenna made it tune ("resonate") at a longer wavelength. Top-loading could be produced by several wires extending outward in all directions from the top of a $\frac{1}{4}$ wave vertical antenna, Fig.2, although top loading also works at the ends of longer antennas. I remember visiting a ham cousin of mine. He showed me how he top loaded his vertical antenna. There it was – a shiny, round brass toilet tank float, sitting on the top of his 20-meter

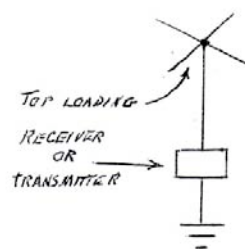


FIG.2. TOP LOADED VERTICAL ANTENNA

-continued next page-

vertical antenna. He also top loaded his lower frequency antenna by using several parallel wires as the horizontal part of his "L" type antenna. With a single wire "T" type antenna, Fig.3, the two top halves are carrying equal and opposite direction currents at all times so their radiations cancel each other producing zero radiation from them. It is only the vertical part of the antenna that does any radiating. The two horizontal parts only increase the resonant wavelength of the transmitting (or receiving) section.

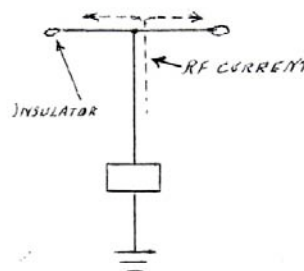


FIG. 3. "T" TYPE VERTICAL ANTENNA

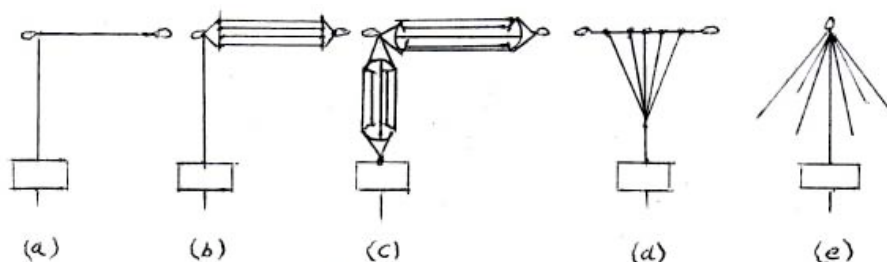


FIG. 4. "L" LOADED "L" LOADED CAGE FAN UMBRELLA

In the old days, many other forms of antennas were tried, Fig.4. Some were; (a), single-wire inverted-L wire types; (b), inverted-L with multi-wired top-loading flat tops; (c), round "cage" inverted-L types; (d), "fan" types; (e), "umbrella" types. The L types were horizontal radiators; the T, fan and umbrella types radiated vertically polarized signals. All of these antennas had to be resonated as $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, full wave, etc. for optimum reception or radiation.

An entirely different antenna idea was the "wave antenna", also known as a "Beverage" antenna, named after its developer. Instead of being resonated and mounted as high as possible for maximum radiation, the Beverage was a non-resonant wire running about two
-continued next page-

meters above a fairly dry ground whose resistance would absorb any radio waves passing over it. This antenna had the ability to reduce noise pickup, but was a poor radiator, so it was only used for receiving. If several wavelengths long, it was very directional. If the receiver was placed at the East end of the antenna, the maximum received signal would be from the West. An RF wave coming from the West traveled along the wire, but the poor ground underneath slowed that part of the wave, bending the wave downward, helping to make the wave stronger as it traveled along the wire. This was true only if its far end was connected to ground through a (+-)450 ohm resistor. If the far end was not grounded, the antenna became bidirectional. Because of its low height above a poor ground, it had no gain over a normal antenna, but its noise pickup could be as much as 15 dB (about 5 times) less than from a normal antenna. Within reason the longer the Beverage wire the more directional it was, the better its noise cancellation. Beverage antennas for the longer wavelengths could be quite long; some were up to 9 miles in length! Not for city lots!

In the early days of radio, a lot of communications were on longer wavelengths (2,000-m to 20,000-m) (or the lower frequencies, 150 kHz to 15 kHz). Our modern AM broadcast band is centered around 350-m, and our lowest wavelength ham band has been decreased to 160-m.

Spark transmitters depended on their $\frac{1}{2}$ -wave antenna length, or a $\frac{1}{4}$ -wave plus ground. The latter is always an infinite number of $\frac{1}{4}$ -waves for all antenna systems. With a loading coil in series with the antenna wire, they could operate on the longer waves, but they caused so much interference on short wavelengths that they were banned there after 1927, but they could still be used at 600-m and longer. 600-m and 500 kHz are the same and for many years old spark and arc transmitters were used on this international distress and calling wavelength.

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In Fig.5, when the key was pressed, the power line ac voltage was increased up to several thousand volts by a "step-up" transformer. When either $\frac{1}{2}$ -cycle of the ac voltage increased sufficiently, it caused a spark to arc across the gap until the ac voltage dropped low enough to open the gap. Each time a spark started, it jolted the antenna into RF ac self-oscillations at the antenna's resonant $\frac{1}{2}$ -wavelength. As long as the key was closed, every half-cycle of ac the antenna radiated a train of RF ac "damped" (dying out to zero) waves.

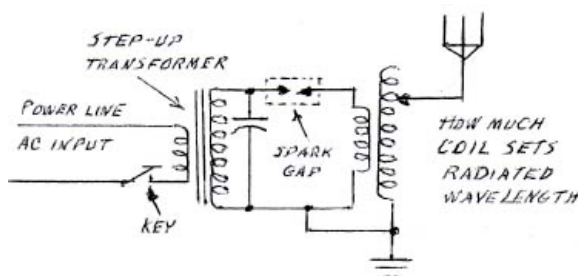


FIG. 5 BASIC SPARK TRANSMITTER

Another old time transmitter was the "arc converter", (converted dc to RF ac), Fig.6. It also depended on the resonant wavelength of its antenna to determine its transmitted RF waves. Its dc generator produced a steady electric arc

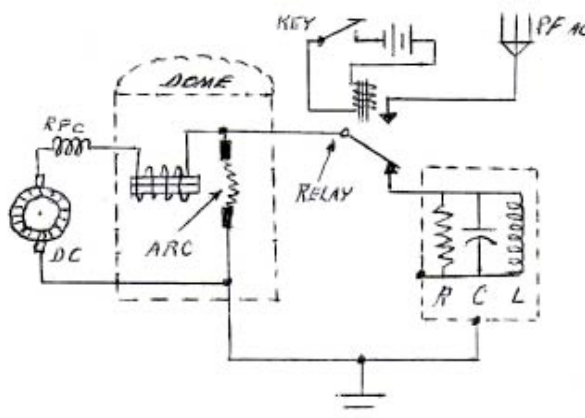


FIG. 6 BASIC ARC CONVERTER CIRCUIT

across copper and carbon contacts in a hydrogen atmosphere inside a metal dome. The iron core choke coil shown, magnetically pushed the arc outward to increase its length and its negative resistance. If an antenna is in series with a constant negative resistance source the antenna losses are overcome and the antenna will continually oscillate at its resonant $\frac{1}{2}$ -wavelength. When this key is closed, it throws an antenna relay arm from a shielded oscillating but detuned non-radiating LCR dummy load, to the transmitting antenna so the

-continued next page-

latter can radiate at its resonant $\frac{1}{2}$ wavelength. If air oxygen leaked into the arc's hydrogen filled dome, when the arc was struck, the H and O exploded, blowing the dome's hinged top up, spraying the operator with a black carbon line across his uniform and around the nearby bulkheads! I hated that!

How do you like this old time method of speaking in "wavelengths" instead of "frequencies"? That's why we normally speak in frequencies today.

73, Bob, W6BNB #3007

NEW MEMBER GLEN W. PLADSEN, AE0Q, #4517

Born November 10 1952, St. Paul, MI. Spouse Merri AB0MV. We met on the air in the 1998 ARRL 10m contest when she was KF4OAD in NC and we were married in Aug. 2000! My old calls were WN0VPK 1968, WA0VPK 1969-1978 and have been



AE0Q 1978 to present. SV0WY 1973-74; ZB2WZ 1974; GM5BKC 1974-78; V31RY 1992-Present; ARRL Life Mbr (member since 1968); QCWA Life Mbr, #26248; Society Of Wireless Pioneers #5558-M (USNavSecGru); RTTY-DXCC #617; RTTY-WAS #186; BARTG #7029; WAZ-CW #319; WAZ-MIXED; A-1 Op 5BWAS #2764; Mixed-WAS #20,436 (1969) CW-WAS; QRP-WAS JCC-100 (CW, 15m, 10m); JCC-200; WAJA KCJA-100 #276; KCJ Mbr #745; QRP-ARCI #9277; 10-X #72165; NSI #1,000,040. I operate CW, PSK31, PacTOR and RTTY, QRP and QRO levels, whichever is fun at the moment. Tony Trettor, W0KVO helped me get my novice license in 1968. I saw his tower and knocked on his door after hearing him on 75m AM on my Hallicrafters S-120. Tony gave me the CW and written test for novice. U. S. Naval Security Group 9/1970 to 4/1977, CTM2. ae0q@arri.net

NEW MEMBER HUGH W. MORGAN, W4VAB, #4514

Born February 2 1937, Huntingdon TN. WN4VAB 1/1952, DL4HM 8/1961 to 8/1963. U. S. Army Signal Corps 6/1958 to 9/1964, Major.

In July 1954 entered the U. S. Military Academy at West Point, NY. While a cadet I occasionally operated W2KGY, The cadet radio club station. Upon graduation in 1958 I was commissioned a 2nd lieutenant in the Army Signal Corps. I became an Army Aviator flying both airplanes and helicopters. I served in the 69th Signal Battalion at Ft. Meade, MD., the 8th Signal Battalion in Bad Kreuznach, Germany, the 8th Aviation Battalion at Mainz, Germany, and the 101st Aviation Battalion at Fort Campbell, KY. I left the army in 1964 and enrolled in the College of Law of the University of Tennessee. After Graduation I joined the law firm in Knoxville, TN now known as Kramer-Rayson LLP and remained with that firm for over 40 years. I upgraded to Advanced class in the late 1960's. I have lots of certificates including Rag Chewers Club, Public service awards, 25 WPM code certificate, WAS, WAZ, DXCC for both phone and CW and am a life member of ARRL and QCWA. **w4vab@arrrl.net**



NEW MEMBER JAMES M. "JIM" HOLLABAUGH, W6TMU, #4511

Born March 7, 1943, District of Columbia (DC). Spouse Sheri, 4 children. USAF 1967 - 1971, Captain. KN4JZR-1957, K4JZR, WA6BIK. **jimholls@prodigy.net**

NEW MEMBER LUKE E. SHERIDAN, W7XQ, #4512

Born April 2, 1947 Wilkes-Barre, PA. KN3PSR-1961, K3PSR, N3EHR, NB3V, AB3AN. U.S. Army 1965 - 1968, SP5 E-5. Served in Vietnam 1967-68. **w7xq@yahoo.com**

***Skip Purcell was listed in the JULY issue as member #4512.
Correct number is 4513. Repeated here with correct number.**

***NEW MEMBER JOHN "SKIP" PURCELL, W3VQY, #4513**

Born September 20, 1934, Lillian VA. Spouse Connie, 2 children. WN3VQY-1953 N3USC. US Army 1960-62 PFC. I was an intermediate speed radio operator in the Army (MOS:051) at Ft. Jackson, SC and 229 Sig. Co. Spt. and Co. A 1st Sig. BN in Boeblingen, Germany. **w3vqy@aol.com**

NEW MEMBER THOMAS C. DAVIS, K9TXJ, #4515

Born December 25, 1942, Columbus, OH. KN9TXJ-1959, N7ROP. 1st contact with WV2GEG Illinois to New York. **k9txj@comcast.net**

NEW MEMBER FRED R. "IKE" EISENHAUER, K9AWR, #4516

Born September 26, 1937, Hanson, KY. Spouse Karen. KN9AWR-1959, K9AWR, KC4WKR. Army 1954-1957, 1965-1975 SSGT. **frenaeis@msn.com**

NEW MEMBER MITCH WOLFSON, DJ0QN, #4518

Born February 22, 1955, Jacksonville, FL. Spouse Waltraud, 2 children. WN6GSN-1968, WA6GSN, N6FAR, W7CF, K7DK. **dj0qn@arri.net**

NEW MEMBER JAMES D. BRADLEY, N7JB, #4519

Born December 3, 1956, Longview, WA. Spouse Jeannine. WN7LQQ-1969, WA7LQQ. Received my novice license in January 1969, age 12. First QSO was with WN7LQP. It was nice to work Al for my 1st QSO. Later, we worked as WA7LQQ and WA7LQP. I notice his call is expired and I believe him to now be a SK. Find it hard to believe I've been licensed 40 years.

My first rig was Johnson Viking Adventurer and Hallicrafters S-40D. **n7jb@arri.net**

****John Kafka was listed in the JULY issue as member #4511.
Correct number is 4520. Repeated here with correct number.**

****NEW MEMBER JOHN T. KAFKA KB2BAA, #4520**

Born November 17, 1950, The Bronx New York. 1st 2-way CB was with KKD6135, Phil Monego, who got me interested in amateur radio along with his dad Joe Monego W2OFB Freehold, NJ. 1st ham CW QSO December 2 1964. jkafka@optonline.net

- . . . -

THESE MEMBERS ARE "SILENT KEY". CALLS MAY HAVE BEEN REISSUED.

NAME	MEMBER #	LAST CALL	SILENT KEY: DATE
Bday:MO/DA/YYYY	1ST-2-WAY	REPORT FROM	
Vladyslav Petukhov B:5/31/1939	#3301 UA4KYA-1953	UA4ZA cbernard@soundcommons.org	SK DATE MISSING
Vlady was issued OOTC certificate in April 1996 for QSO's with 58 OOTC members.			
Edward Van Gasbeck B:1/8/1912	#2299 W1IJO-1934	W1DS Bob McCormick W1QA (not ootc member)	SK 7/18/2006
Esther E. Frost B:1/3/1917	#2622 Military-1945 KA4IFF-1979	KA4IFF	SK:3/26/2008 From son John.
Navy radio operator Pensacola FL where met Elmer her husband also in Navy. Survived by Elmer, son John, 4 grandchildren and 6 great grandchildren.			
Herbert A Wright B:11/9/1913	#1667 W6FMU-1932	W7BE	SK DATE MISSING QCWA Journal Summer 2008
Ernst-Heinr Hartman B:8/6/1920	#2760 Military-1940 DJ3GK-1956	DJ3GK	SK DATE MISSING QCWA Journal Summer 2008
Joseph A. Valasek B:9/16/1940	#3980 KN3MRT-1960	K3MRT	SK DATE MISSING QST 11/08/PG99
Raleigh L. Wert B:1/6/1938	#3265 WN8QOI-1954	W8QOI	SK DATE MISSING QST 11/08/PG99
Alex J. Henderson B:3/18/1944	#3940 KN8TXS-1960	K8TXS	SK DATE MISSING QST 11/08/PG99

THESE MEMBERS ARE "SILENT KEY". CALLS MAY HAVE BEEN REISSUED.

NAME	MEMBER #	LAST CALL	SILENT KEY: DATE
B:MO/DA/YYYY		1ST-2-WAY	REPORT FROM
H. Allen Robbins B:8/7/1914	#3420	W7AM W7BGG-1931	SK DATE MISSING QST 12/08/PG98
Ralston H. Connell B:MISSING	#3165 Military-1942	W2VDE W2VDE-1947	SK DATE MISSING QST 6/2008/PG101
Georg W. Bakalorz B:9/25/1926	#3096 Military-1943	KE3EZ DL7JX-1960	SK DATE MISSING QST 7/2008/PG101
Walter H. Grosselfinger B:3/10/1910	#3324 SPARK-1920	W2ATQ 2BCM-1927	SK DATE MISSING QST 8/2008/PG101
Arch D. McGregor B:3/9/1920	#2824	W6AGZ W0AFS-1949	SK 3/7/2008 Daughter Susie McGregor
Harry R. Hyder B:7/11/1920	#2609	W7IV W2LIW-1939	SK DATE MISSING QST 8/2008/PG101
Alex A. Polityka B:7/15/1912	#1814	W8FLA W8FLA-1932	SK 5/18/2008 QCWA.ORG
Ronald R. Kaiser B:3/9/1938	#4078	K9RCN K9RCN-1959	SK DATE MISSING QST 8/2008/PG101
Howard F. Shepherd, Jr, B:11/7/1920	#4334	W6US W6QJW-1938	SK DATE MISSING QST 9/2008/PG101
Albert W. Hottinger B:MISSING	#1291	W3EV W3EV-1929	SK DATE MISSING QST 10/2008/PG97
Robert F. Bowker B:2/29/1916	#2862	K6QT W8FUE-1931	SK DATE MISSING QST 6/2008/PG101
Ruby Ann La Rue B:1/25/1912	#3500	W7JZA W6BRI-1931	SK DATE MISSING QST 6/2008/PG101
Armand Defusco B:5/5/1919	#4284	W1WKO W1WKO-1953	SK DATE MISSING QST 7/2008/PG101

Oct-01 WIEDERHOLD WA1HGE	Oct-11 GRIFFEE N4FG	Oct-21 FITZGERALD W2CUV
Oct-02 SMITH W1LRM	Oct-11 MARSHALL W1CCE	Oct-21 WOOD KS5R
Oct-02 STOUT W3GEB	Oct-11 HOPPER K5VV	Oct-21 BURKE W1LDG
Oct-02 WELSH W6JEP	Oct-11 SAUNDERS W2IKN	Oct-21 BATES W2HLI
Oct-02 MC FADDEN SR K4FF	Oct-12 BUETTNER DJ3OP	Oct-22 LOVEJOY K6UW
Oct-02 TURNER W1DLP	Oct-12 ANDERSON 1935-UNKN	Oct-22 WIIK W0UGP
Oct-03 CHRISTENSEN W8WOJ	Oct-13 COBB W6JOJ	Oct-22 JENSEN W6RHM
Oct-03 LANGEVIN W6MFP	Oct-13 MARSH W9FBB	Oct-22 McELHINNEY KC5ITR
Oct-03 STODDARD KV5K	Oct-13 PHILLIPS W6IZJ	Oct-22 JONES N4TN
Oct-03 HERRO W8CW	Oct-13 BASHAM W7TCT	Oct-22 SINGER K6KSG
Oct-03 WILLIAMS JR W9GXR	Oct-13 YODER JR K4MSN	Oct-23 MENERICK W8MEJ
Oct-04 CURTIS SR K5CP	Oct-13 THOMAS III W3FAF	Oct-23 REVIS KF5BL
Oct-04 WESTBROOK JR W4AO	Oct-13 BARDEN MD0CCE	Oct-24 EDDY N6EM
Oct-04 SCHWEIN KE8Z	Oct-14 TRENCH LU8BA	Oct-24 CALDWELL JR K8GWU
Oct-05 WALKER N0CB	Oct-14 STONE SR K7DWT	Oct-24 REAVIS K9PVS
Oct-05 BUTTSCHARDT W6HDO	Oct-14 DEVENDORF W8EGI	Oct-25 HANSEN W9IX
Oct-05 BURNS JR K1GUP	Oct-14 JAKSA W0VX	Oct-25 SALEWSKI DJ1PV
Oct-05 DAVIS K0GND	Oct-14 STINGEL K1DBN	Oct-25 YORK KG5CD
Oct-06 PHILACTOS W2IWH	Oct-15 OLIPHANT W8BPC	Oct-25 MC CLUNG WN2H
Oct-06 BROWN W5IQL	Oct-15 ALLEN JR W6MFC	Oct-25 GREENBERG W6AEK
Oct-06 CHARLTON W5MD	Oct-15 GOLD WA2IIB	Oct-26 SALCEDO KG6NH
Oct-06 PULITZER W5JYK	Oct-15 SARGENT K4LFH	Oct-26 ROSKE N0UF
Oct-06 WIESNER DJ5QK	Oct-15 WISE W5OVH	Oct-27 CAGNEY SR KH6GJC
Oct-06 WEINHARDT W9PPG	Oct-16 MC DONOUGH K8AN	Oct-27 ALDREDGE
Oct-06 Mc CLELLAND W3OOJ	Oct-16 COMSTOCK WB6YVE	Oct-27 SWANSON KB6O
Oct-06 BALLENTINE JR K4AZU	Oct-17 MILBURY W6YN	Oct-27 BORENSTEIN W9FO
Oct-07 ZELICH AA4MI	Oct-17 KELLOW W5LT	Oct-28 FLOYD W5VGW
Oct-07 RECORD W1VQ	Oct-18 KIRCHNER SR W9BUA	Oct-28 CHRISTIANSEN WM7C
Oct-08 CURTIS W1EXZ	Oct-18 KUTZNER DL9IE	Oct-28 ROBERTS W8BFQ
Oct-08 ADKINS W4GA	Oct-18 KING AA7ZI	Oct-29 LYCETT JR W1DKS
Oct-08 WARNER JR K3EGR	Oct-18 RICH JR W2SLW	Oct-29 MOULTON W2NLJ
Oct-08 BUCHALSKI W2QKH	Oct-18 FRANKLIN K6DF	Oct-29 FRERET W4KB
Oct-08 MC GINN K8CFY	Oct-19 MORONEY W1ERW	Oct-29 LYRA PY5BLG
Oct-08 YINGST W4CKI	Oct-19 LARSON K0TIN	Oct-29 WATTERS W9SAD
Oct-08 KEMPA W9RSV	Oct-19 CASSEN W6RI	Oct-29 CALLENDER W4LB
Oct-08 NICHOLAS JR K5HLZ	Oct-19 GIBSON W5PD	Oct-29 EDWARDS K5VUU
Oct-09 MOORE K4NF	Oct-19 GENTILIN AB6MR	Oct-30 HARDT W0JS
Oct-09 O'CONNELL	Oct-20 MATHIAS W8KGD	Oct-30 LAGODA W3CL
Oct-09 MOLLENHAUER N2FZ	Oct-20 SHRADER W6BNB	Oct-30 SHAUB W3AXC
Oct-09 KING N6YE	Oct-20 WILLIAMSON K0YNW	Oct-30 PIOVESON W9FX
Oct-10 GRAHAM W6HG	Oct-20 MARICH K4SGR	Oct-30 SIMPSON W8EK
Oct-10 KENNEDY K2TTI	Oct-21 VANDERSTREET N1WNT	Oct-30 MURRAY W3LF

Oct-31 GRAMS DL6GX	Nov-11 MC CLOUD W6JNP	Nov-19 STODDARD W8KLN
Oct-31 SMITH K8WXJ	Nov-11 RENSCHAW W6KZS	Nov-19 GAGE N5WIZ
Oct-31 GIBSON W5RG	Nov-11 MC CAULEY W4AJZ	Nov-19 ANDERSSON K8SL
Oct-31 ENAULT WA6OCP	Nov-11 SEXTON W1QUW	Nov-19 LAINE OH2BH
Nov-01 TURNBULL W3ABC	Nov-11 RAUCH W6NR	Nov-20 MILLER K6IR
Nov-01 MOZLEY W2BCH	Nov-11 STRICKLAND AC4DD	Nov-20 HUNTLEY KA2KFC
Nov-01 VERDICK KA4WFS	Nov-11 MORTON JR KN2GSJ	Nov-20 ROSS 5B4OG
Nov-01 PHILLIPS N4OZN	Nov-11 LEMASTER WB6ECB	Nov-20 PERERA W1TP
Nov-01 LINDSEY K0EVZ	Nov-11 CASHON K0PTK	Nov-20 MACKEY WL7EM
Nov-02 MURPHY JR W3BBL	Nov-12 DOERR DL1EC	Nov-20 TILLSON JR W1HWO
Nov-02 LOPEZ W6WWP	Nov-13 WONDERGEM K5KR	Nov-20 JOHNSON W5NU
Nov-02 NATHANSON W8RC	Nov-13 LACABANNE W6BPA	Nov-20 PARSONS K3OTY
Nov-02 HODAPP K8OPV	Nov-13 WICAL KH6BZF	Nov-21 MARSH W4WLH
Nov-02 REGO W1GCA	Nov-14 ALBERS W4ER	Nov-21 RICKERD W8BQD
Nov-03 SHEPARD SR N4ZH	Nov-14 ELWOOD WW7P	Nov-21 CASE W5LC
Nov-03 POMMER W3UZ	Nov-14 MILLER W2MQB	Nov-22 SHAWSMITH VK4SS
Nov-03 DAVIS K6HIT	Nov-14 CWICK N2JCZ	Nov-22 DEILY SR W8YA
Nov-03 OSBORN JR WU4W	Nov-14 WATKINS W4OKL	Nov-22 NOLAN WB6CFT
Nov-03 WINTERS K4PVA	Nov-14 MCGRATH W5IOK	Nov-23 CURTIS W8BMJ
Nov-04 LEMMA WU2G	Nov-14 WARINSKY K9NJ	Nov-23 TAYLOR JR W8DFV
Nov-04 MELCHER W6ARM	Nov-15 DAILEY W6EGR	Nov-23 LIEB KH6HME
Nov-04 WALLACE K5APB	Nov-15 O'BRIEN K2CPF	Nov-23 WELLS W4BOT
Nov-04 DOLAK K3AHG	Nov-15 LITTELL W8HQI	Nov-23 LARSON K6HLX
Nov-05 EBERHART W3DNF	Nov-15 PETERSON W4ATP	Nov-23 DAY N6HE
Nov-05 ELLIS VE3VTC	Nov-15 MARMON KA1HR	Nov-24 WILLIAMS W3GRK
Nov-05 MC COBB JR W1LLU	Nov-15 DONOGHUE N1ACZ	Nov-24 BOHAN GM0FIQ
Nov-05 DEAL K5FSS	Nov-15 NISWANDER K8HSF	Nov-24 SMITH W9NQC
Nov-06 SASSON W2JAJ	Nov-15 BINGHAM K6CBN	Nov-24 MORGAN N4LM
Nov-06 SHAPPEE W5HQJ	Nov-16 LANE N4GX	Nov-25 TUMULTY W2ILB
Nov-07 DRESSEN KD6LG	Nov-16 SHAMBLIN KM4JL	Nov-25 KLITZING JR K6VL
Nov-07 BASSETTE KO8B	Nov-16 BYRGE W4HPG	Nov-25 MC MAHON N6VY
Nov-07 BOYD KD4VBR	Nov-16 CRUMP VE3OU	Nov-25 SCHUMANN KA5TUF
Nov-07 ENNIS W8WN	Nov-16 RISSANEN HP1WW	Nov-25 PRASSE DJ5DC
Nov-07 LAMBERT N4ZX	Nov-17 BOGGISS VE7YM	Nov-25 PFANNENSCHMID W0ZZS
Nov-07 JONES W5TUU	Nov-17 COLBERT W5XE	Nov-26 KILSHEIMER KB2DIS
Nov-07 JONES KC4UXO	Nov-17 ROSIE W7GSV	Nov-26 QUINN W0US
Nov-07 SHEPHERD JR W6US	Nov-17 KAFKA KB2BAA	Nov-26 WILSON W5FLO
Nov-08 BISHOP N6TPG	Nov-18 RAFFERTY WA7ZOO	Nov-26 COLLINS K1BTD
Nov-09 WRIGHT W7BE	Nov-18 HARMON N8MOK	Nov-26 EISENBREY AB5WG
Nov-09 GOODWIN KO6D	Nov-18 PARDUE W5OS	Nov-26 YOKES W9BCK
Nov-09 ENGLISH W7LHI	Nov-18 GRUBBS K4UTY	Nov-27 LOCKWOOD W1DGN
Nov-09 REID WA2BQC	Nov-18 LASH W8POS	Nov-27 FLICKINGER AE4WF
Nov-10 BALDWIN W1RU	Nov-18 SMITH KK3P	Nov-27 WHITEHOUSE W1GEE
Nov-10 PLADSEN AE0Q	Nov-18 COLBERT K3HX	Nov-27 KOVATS W6RSI
Nov-10 TROSTER W6ISQ	Nov-19 HELLER W3CGZ	Nov-28 KRAMER W4NR
Nov-11 FOREMAN W4EMI	Nov-19 MAYER K2BHV	Nov-28 JOHNSON W6FU

Nov-28 KABALA KB3BFK
Nov-28 GREEN W1HT
Nov-29 BRIDGES W6FA
Nov-29 SEARCH W3AZD
Nov-29 MONTRESS W2JJM
Nov-30 SOUTHWORTH KC5RZ
Nov-30 MC NALLY K6WX
Nov-30 ROSENTHAL K2VCO
Nov-30 WORRELL KC1ZI
Nov-30 ROBINSON N1MR
Dec-01 SMITH W0DUN
Dec-01 YOCHELSON W6AS
Dec-02 BAUM VE7GVC
Dec-02 LENTZ K4IJK
Dec-03 BRADLEY
Dec-03 LUCKEY W6MJ
Dec-03 MICHAUD N4CW
Dec-03 SERRA JR N6NC
Dec-04 HALL W5ETK
Dec-04 MC QUAID SR KA5VRG
Dec-04 KITTELL W4LIF
Dec-04 JENKINS W5EU
Dec-04 HALE W4TVQ
Dec-04 GEIS W5IBZ
Dec-04 NICHOLS W7EML
Dec-04 MADERA KP4PQ
Dec-04 TRAUGHBER W0ZX
Dec-04 DEAN W4NHQ
Dec-04 JOHNSON WA6SBB
Dec-05 FERRANTO N6IE
Dec-05 STODOLKA W0TIV
Dec-05 PARKER W8NSH
Dec-05 THOMPSON K0SUM
Dec-05 NENDICK W7QWD
Dec-06 HOOPER W5DPJ
Dec-06 SPRAGUE K6WK
Dec-06 BEVERAGE W1MGP
Dec-06 DREWS DL7DH
Dec-06 PESCH DJ2XB
Dec-06 WHEATON W5XW
Dec-06 MORGAN K0DEQ
Dec-06 RITTER ND4MR
Dec-07 HALE W6SC
Dec-07 DEWEY NI8Z
Dec-08 BELL W6BJO
Dec-08 DUNN W1DIT

Dec-08 YANTIS K0GY
Dec-08 MC ENTIRE W6QMU
Dec-09 CHURCHILL W6QBY
Dec-09 HUNTER W0PLN
Dec-09 JOY W5FNO
Dec-09 GASCON W7SJS
Dec-09 LOVE K5EE
Dec-09 LA PORTA N1CC
Dec-09 PARKER K2MEN
Dec-10 LIPSKY AF2S
Dec-10 NADASKAY K5KJV
Dec-11 ROTZ N4NES
Dec-11 TIPPETT II W4ZV
Dec-11 MC CULLEY KE4BIN
Dec-12 HENSON W6NKR
Dec-13 RUEHLEN N5GOI
Dec-13 WELSH W6DDB
Dec-13 MILLER W5PBN
Dec-13 SCHEMP K4ONY
Dec-13 SCHULTZ KD5LV
Dec-14 KEYS SR W5WM
Dec-14 MURDOCK W5IN
Dec-14 JOHNSTON W0TKW
Dec-14 SOMMER KL7FU
Dec-15 RUFF SR W9ZFU
Dec-15 BIRD W4WUL
Dec-15 ADAMS N6MJW
Dec-15 SANDIDGE K4FUM
Dec-15 SASEK W7KQ
Dec-16 RAFFERTY AB6US
Dec-16 CHERRY K4YA
Dec-16 KERLIN K3AM
Dec-17 CAPELLO I2LXA
Dec-17 DAVIS W5WRG
Dec-17 HARDIMAN N7DUC
Dec-17 TOLL W6JNU
Dec-17 DE PETRILLO W1EYH
Dec-17 WILLIAMS KI7DG
Dec-18 BAIRD W9UWC
Dec-18 HOWARD W2ATO
Dec-18 CHRISTOPHERSON K9JIG
Dec-19 EDWARDS W4BKZ
Dec-19 LODATO W5IIA
Dec-19 TIBBLES N5QZH
Dec-19 GORMAN W6SQZ

Dec-19 WHITE W5LRU
Dec-19 COLLINS K6VV
Dec-20 RICHARDS K6WNR
Dec-20 WAGGONER W0KA
Dec-20 CLANCY WB5STU
Dec-20 TENENBAUM K1JIY
Dec-20 DIRKER K8VV
Dec-20 SWEENEY K4LSB
Dec-21 NOBLE N6WR
Dec-21 FRIEDMAN WB2IMO
Dec-21 GOOD W1GS
Dec-21 PALMER W6CWJ
Dec-21 JENKINS KG8P
Dec-22 SHAHAN W5END
Dec-22 BEMAN W6GP
Dec-22 COMBS NT1Q
Dec-23 SHEEHAN W1LMS
Dec-23 GREENWOOD W0IJA
Dec-23 JACKSON W6HDP
Dec-23 SMITH W6LIC
Dec-23 MITCHELL JR W4OA
Dec-24 EHRlich K0KGY
Dec-24 DONOHUE W1QU
Dec-25 BUCKNER W0VZK
Dec-25 DAVIS K9TXJ
Dec-25 WELLBORN K4CLA
Dec-25 ARCURE JR W3HNK
Dec-26 HUNTER K6RF
Dec-27 PEEK W6KXB
Dec-27 JEUTTER K3GGN
Dec-28 STAPLETON W1GJV
Dec-28 NICHOLSON K6TLN
Dec-28 RANGLES W4GXZ
Dec-28 PISKUR K7FP
Dec-29 MARTIN SR W5HFP
Dec-30 MATTOX N5AD
Dec-30 SMITH W0LDF
Dec-30 DIBLE W8CRH
Dec-30 SANDSTROM N5ATI
Dec-31 RATHER IV W7LBW
Dec-31 CARLSON W5LQ
Dec-31 GRISHAM N5NYR
Dec-31 FIORE W2LTF
Dec-31 FITZSIMONS W3YRS

--IMPORTANT NOTICE--

The transfer of Executive Secretary from Bert, W5JNK to Bill, W6AJ, was not without problems. This late Spark-Gap Times attests to that. We have now split the work load. Bert is the Editor/Publisher of the SGT. If your dues expiration date is NOT correct or you have not received proper response from us, please let us know so it can be corrected. Bill - ootc@ootc.us Bert - ootc@att.net

OOTC BANNER

The OOTC banner* shown below, is available to OOTC members for club use at HAMFESTS or SPECIAL EVENTS. You pay shipping "to and from". Contact Bert, W5JNK, ootc@att.net or mail 3191 Darvany Dr. Dallas TX 75220-1611.

***The banner must be returned as soon as the HAMFEST or EVENT is over.**



Nadine, W5ZUT #3210 (neat member number) is holding extender PVC pipe to raise the banner another 5 feet.

Notice: Call letters shown were calls they used, subject to reissue since then.

PRESIDENT

1947-1949 IRVING VERMILYA *W1ZE
 1950-1952 GEORGE STERLING **W1AE
 1953-1955 IRVING VERMILYA *W1ZE
 1956-1958 WATSON GREENE W1CPI
 1959-1963 EARL CLINE SR ***W4PPZ
 1964-1967 BERT OSBORNE W4MF
 1968-1969 RAYMOND F GUY W4AZ
 1970-1976 ANDREW SHAFER W8TE
 1977-1978 FRED ELSE W6FB/KH6CZ
 1979-1984 RAY MEYERS W6MLZ
 1985-1986 LEWIS SIEK K4NE
 1987-1990 L. F. HEITHECKER W5EJ
 1991-1992 DUNCAN KREAMER W1GAY
 1993 HARRY GARTSMAN W6ATC
 1994-2004 LELAND SMITH (SK-in-office) W5KL
 2005 DUNCAN KREAMER W1GAY
 2006-2008 TROY WIDEMAN W6HV

VICE PRESIDENT

1947-1952 ROLAND BOURNE ****W1ANA
 1953-1958 CHARLES ELLSWORTH *****W1TU
 1959-1961 LAWRENCE DUNN W2CLA/W2LP
 1962-1964 MERRILL BEAM K2BX
 1965-1967 PERLEY B DUNN W6WPF
 1968 FRED ELSE W6FB/KH6CZ
 1969 EDWARD RASER W2ZI
 Assistant BERT GAMBLE W5ZC
 1970-1971 WILLIAM GOULD III K2NP
 1972-1976 FRED ELSE W6FB/KH6CZ
 1977-1979 GEORGE ELDRED W9SG
 1980-1984 LEWIS SIEK K4NE
 1985-1986 HOBART JOHNSON W3AC
 1987-1990 DUNCAN KREAMER W1GAY
 1991-2005 HARRISON MOORE W2JQS
 2006-2008 JOE SCHROEDER W9JUV

TREASURER

1947-1952 HUBERT INGALLS W1NQ
 1953-1958 EARL CLINE SR ***W4PPZ
 1959-1964 EARL WILLIAMS W2EG
 1965-1966 EUNICE THOMPSON W1MPP
 1967-1968 T. FRANK SMITH W5VA
 1969 BERT GAMBLE W5ZC
 1970-1976 RAY MEYERS W6MLZ
 Assistant LEE MANN K6KP
 1977-1978 RAY MEYERS W6MLZ
 1979-1986 A. J. GIRONDA W2JE
 1987-1991 BERT AYERS W6CL
 1992-1993 WESLEY RANGLES W4COW

TREASURER(continued)

1993-2008 LEE KNIRKO W9MOL
 2008- JOSEPH WEHNER W8KNO

EXECUTIVE SECRETARY

1947-1953 HUBERT INGALLS(founder)W1NQ
 1954-1956 FRED MULLER (SK-in-office) W4ZL
 1956-1957 EARL CLINE SR ***W4PPZ
 1958 RICHARD KLEINBERGER W2AEC
 1959-1964 EARL WILLIAMS W2EG
 1965-1967 EUNICE THOMPSON *****W1MPP
 1968 T. FRANK SMITH W5VA
 1969 BERT GAMBLE W5ZC
 1970-1978 RAY MEYERS W6MLZ
 1979-1986 A. J. GIRONDA W2JE
 1987-1988 BERT AYERS W6CL
 1989-1990 WESLEY RANGLES W4COW
 1991-1993 TED HEITHECKER(SK-in-office) W5EJ
 1994-2008 MILBERT WELLS W5JNK
 2008- WILLIAM CARTER W6AJ

* **W1ZE** Operator at old "CC", the Marconi station at South Wellfleet, Cape Cod, MA.

** **W1AE** FCC Commissioner during his term as OOTC President.

*** **W4PPZ** Originator of OOTC newsletter Blabbermouth, later renamed Spark-Gap Times.

**** **W1ANA** designed OOTC certificate still used today. He was top executive at Maxim Silencer Co. and close associate of Hiram Percy Maxim, the founder of ARRL.

***** **W1TU** One of the three wireless operators who handled all the traffic on the Titanic sinking while he was with the Canadian Marconi Company in Newfoundland. Also received a Presidential commendation for the handling of radio traffic on the NC-4 transatlantic flight. He sponsored Marconi's daughter as the Old Old Timers Club first honorary member.

***** **W1MPP** The first woman broadcaster in the United States, and no doubt the world.

#0026 K2AE Henry Broughton made radio contact across the stage, assistant to Nikola Tesla, the Chicago Worlds Fair, 1893.

This report compiled from the best records found, if better info known, advise editor, Bert, W5JNK, ootc@att.net

OOTC BADGE 1/16" X 2" X 3"

White background and either BLACK or RED logo and lettering. Beveled edge gives either a black or red border. Send this order blank or a copy of it, with check, money order or U. S. currency to:

OOTC INC
8015 Loyola Blvd.,
Los Angeles, CA 90045-2636



PUT MY MEMBER # UNDER THE CALL LETTERS YES____NO____
(IF YOU DO NOT CHOOSE, THE MEMBER NUMBER WILL BE OMITTED)

CHOOSE RED OR BLACK LETTERING
(If you do not choose, black lettering will be ordered)

WHITE WITH BLACK LETTERING_____

WHITE WITH RED LETTERING_____

BADGE WITH LOCKING SAFETY PIN BACK (\$7.00)_____

BADGE WITH PLASTIC POCKET CLIP (\$9.00)_____

BADGE WITH MAGNETIC BARS (\$9.50)_____
(NO HOLES IN SHIRT OR BLOUSE)

BADGE WITH BOLO CLIP AND TIE (\$9.50)_____

CHOOSE TIE COLOR

BLACK____RED____BLUE____BROWN____

(If you do not choose, black tie will be ordered)

PRINT YOUR CALL LETTERS

PRINT HOW YOU WANT YOUR NAME TO APPEAR

PRINT WHAT YOU WANT HERE, CITY & STATE OR ?
(If you want nothing here, say "nothing here")

OLD OLD TIMERS CLUB INC.

APPLICATION FOR MEMBERSHIP, MAIL TO OOTC INC.
8015 Loyola Blvd. Los Angeles, CA 90045-2636

for information, write or call

PH: 310-670-4310 E-mail: ootc@ootc.us Web site: www.ootc.us

(PLEASE PRINT ALL ITEMS CLEARLY)

Name_____

Present call_____ Address_____

PHONE_____ E-mail_____

1st 2-way HAM wireless(Year)_____ Nickname/Handle_____

My first amateur call was_____ Other calls_____

If not HAM, first 2-way wireless Commercial Radio () Military Radio ()

CB () Year_____ Describe it_____

Date of
Birth_____ Birthplace_____

NEW MEMBER ENROLLMENT FEE \$22. (10Initiation+\$12.one year dues.) Yearly Dues \$12. All members of same family at same address for \$15/yr. Or elect \$10 initiation plus LIFETIME DUES for: Under age 75 \$175., 75 to 79 \$135., 80 to 84 \$110., 85 to 89 \$85., 90 to 94 \$50. IF YOU ARE 95 OR OVER, SEND APPLICATION AND NO MONEY. Funds must be acceptable at a U.S. Bank. If needed, will accept Installment payments.

Members may receive Spark-Gap Times by PDF E-MAIL attachment on request. Whether dues are paid or not, members remain on the membership rolls. Dues support the operation of the club. Post Office mailing is not always possible to all members not paying dues. This is a non-profit club. INTERNATIONAL MEMBERS NOTE: Please remit with (1) American Express money order, or (2) Check drawn on a U.S. Bank, if a branch of a U. S. bank accessible, or (3) if foreign bank, must add \$20 collection fee which is charged by our bank, or (4) U. S. Currency.

ELIGIBILITY REQUIREMENT. You are eligible If you had two-way wireless communication 40 (or more) years ago (eligible on January 1 of the 40th year). OOTC recognizes your first two-way communication whether through CB, amateur, commercial or military operation. Provide proof if possible. If never ham licensed but had eligible 2-way communication, you may join as an Associate Member. Get ham license later and the "A" (Associate) will be dropped after your member number.

OOTC wishes to have extended information about each member, activities and background. The information becomes a permanent and important part of your record as a member of OOTC, making it possible for us to write of your life work and experiences. We would appreciate a photograph, B&W or color. Send a biography and/or any story suitable for publication in Spark Gap Times on separate sheet(s) of paper. Unless you advise otherwise, filing this application gives us permission to publish your membership in Spark Gap Times.

First name of spouse_____CALL_____ # children____

Military Branch_____service from_____

to_____, Rank_____I heard about OOTC from_____

Your Signature_____

Last 4 digits your Social Security #_____(Helps for SK identification)